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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	
WOO, ISAAC M	
ART UNIT	**PAPER NUMBER**
2162	

DATE MAILED: 12/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/703,941	GRAHAM, DOUGLAS A.	
	Examiner	Art Unit	
	Isaac M Woo	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the corresp ndence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *27 September 2004*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-13,15-31,33,35-52,54-58 and 60-69* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-13, 15-31, 33, 35-52, 54-58 and 60-69* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is in response to Applicant's Amendments, filed on September 27, 2004 have been considered but are deemed moot in view of new ground of Rejections below.

2. Claims 14, 32, 34, 53 and 59 are canceled. Claims 1, 5, 22, 31, 36-40, 49-50, 57, 60-64 and 68-69 are amended. And claims 1-13, 15-31, 33, 35-52, 54-58 and 60-69 are pending.

Claim Objections

3. Claims 33, 35-37 and 60-61 are objected to because of the following informalities: claims 32 and 34 are canceled. However claim 33 and 35-37 are still dependent on canceled claims 32 and 34. Claim 59 is canceled. However, claims 60-61 are still dependent on claim 59. Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-13, 15-31, 33, 35-52, 54-69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ainsbury et al (U.S. Patent No. 6,078,924, hereinafter, "Ainsbury") in view of Konta Kazunobu (Paten of Japan No. 11-096266, hereinafter, "Konta").

With respect to claims 1, 20-22, 31, 33, 49-52 and 68-69, Aisbury discloses, searching for at least one database key identifies the at least one remote database accessible via a network of computer systems, see (section 1, Data Retrieval, col. 6, lines 40-67 to col. 7, lines 1-49, col. 10, lines 50-67 to col. 11, lines 1-23), determining whether each remote database found during the searching is comprised of the desired type of data (14-18, web, desk top, notes, etc., fig. 1, different data type source), see (section 1 , Data Retrieval, fig.1 , col. 6, lines 40-67 to col. 7, lines 1-49), and storing location information for each remote database found during the searching if the remote database is comprised of the desired type of data, see (col. 7, lines 49-67 to col. 8, lines 1-49), searching for at least one desired data type via a network of computer system, see (section 1, Data Retrieval, col. 6, lines 40-67 to col. 7, lines 1-49), searching at least one database key identifies the at least one remote database, see (col. 6, lines 45-67), collecting data from database (col. 12, lines 1-25, col. 16, lines 43-53, database could be a remote database (internet web server is external web database), Web database

has an address (URL) that is used as key to locate in the Internet). Aisbury does not explicitly discloses, the desired type of data is time series data. However, Konta discloses the database 4 includes time series data, see (abstract, field of invention section [0001], Means for solving problem, section [0010]-[0011]). This time series data is stored and searched. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Aisbury by incorporating the desired type of data is time series data with the system of Konta. Thus, one having ordinary skill in the art at the time the invention was made would have found it motivated to use such a modification because that would provide Konta's system the specific data type, such as, time series data, for enhanced and efficient data manipulation in the data management system.

With respect to claims 2 and 11, Ainsbury discloses, selecting at least one remote database found during searching that is comprised of the desired type of data for use in a predetermined data analysis, see (col. 7, lines 3-67 to col. 8, lines 1-48, col. 6, lines 45-67).

With respect to claims 3 and 12, Ainsbury discloses, retrieving data from the selected remote database via the network of computer systems; and using the data retrieved from the selected remote database in the predetermined data analysis, storing an indication that the remote database is comprised of data that has been used in the

predetermined data analysis, see (col. 7, lines 3-67 to col. 8, lines 1-48, col. 6, lines 45-67).

With respect to claims 4-7 and 10, Ainsbury discloses, determining at a predetermined time interval whether the database has changed, and if the database has changed, updating the predetermined data analysis using the changed data wherein the data that has been used in the predetermined data analysis is time series data, and the predetermined time interval is determined on the basis of the frequency of the time series data providing an indication to a predetermined user that the predetermined data analysis has been updated, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claims 8-9, Ainsbury discloses, predetermined data analysis a forecast that is an economic, demographic or meteorological forecast, see (col. 7, lines 42-67 to co1. 8, lines 1-49, col. 6, lines 45-67, col. 10, lines 50-67 to col. 11, lines 1-23).

With respect to claim 13, Ainsbury discloses, receiving a specification of the desired type of time series data before searching and the storing, see (col. 7, lines 42-67 to col. 8, lines 1-49, col. 6, lines 45-67, col. 10, lines 50-67 to col. 11, lines 1-23).

With respect to claim 15, Ainsbury discloses, determining the type of data relevant to a predetermined analysis before the searching and the storing, see (col. 7,

lines 42- 67 to col. 8, lines 1-49, col. 6, lines 45-67, col. 10, lines 50-67 to col. 11, lines 1-23).

With respect to claims 16-19, Ainsbury discloses, determining information about at least one characteristic of the remote database, storing information that is frequency, data units, data scale, data source, data update, and number of data points, the remote database is determined from at least one XML data definition tag, see (col. 6, lines 45-67, col. 8, lines 50-67 to col. 9, lines 1-49, col. 10, lines 50-67 to col. 11, lines 1-23).

With respect to claim 23, Ainsbury discloses, predefined protocol to access at least one computer system and to process the information retrieved from at least one computer, see (col. 7, lines 42-67 to col. 8, lines 1-49, col. 6, lines 45-67, col. 10, lines 50-67 to col. 11, lines 1-23).

With respect to claim 24, Ainsbury discloses, predefined protocol is TCP/IP communications protocol, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 25, Ainsbury discloses, predefined database formatting information to access the at least one computer system and to process the information retrieved from the at least one computer system, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 26, Ainsbury discloses, predefined database formatting information is comprised of a plurality of predefined database format definitions, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 27, Ainsbury discloses, reading uniform resource locator (URL) information corresponding to at least one computer system accessible via the Internet; accessing the at least one computer system via the Intemet; determining whether the at least one computer system provides access to at least one remote database, and storing location information for the at least one computer system if the at least one computer system provides access to the at least one remote database, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 28, Ainsbury discloses, retrieving HTML formatted information from each computer system found that provides access to at least one remote database, and parsing the retrieved HTML formatted information to determine whether the at least one remote database is comprised of data of the desired type, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 29, Ainsbury discloses, HTML formatted information is comprised of a meta tag, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 30, Ainsbury discloses, retrieving XML formatted information from each computer system that provides access to at least one remote database, and parsing the retrieved XML formatted information to determine whether the at least one remote database is comprised of data of the desired type, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claims 35-37, Ainsbury discloses, the characteristic information is a number of data points in the at least one time series of data; starting and ending time data; and time interval between each of the data points contained in the at least one time series of data, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 38, Ainsbury discloses, for each of the time series data, determining whether time series data is redundant of a data series for which information already been stored, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 39, Ainsbury discloses, if the time series of data is redundant of the data series for which information has already been stored, not storing information about the time series of data, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 40, Ainsbury discloses, if the time series of data is not redundant of the data series for which information has already been stored, storing information about the time series of data and not storing information about the data

series for which information has already been stored, see (col. 7, lines 42-67 to col. 8, lines 1-49).

With respect to claim 41, Ainsbury discloses, determining whether a correlation exists between at least some of the data of the desired type contained in the at least one remote database and at least some of the data of the desired type contained in a predefined data set; and if the correlation exists, storing an indication of the correlation in association with the stored location information for the at least one remote database, see (col. 6, lines 45-67, col. 10, lines 50-67 to col. 11, lines 1-23).

With respect to claims 42-46, Ainsbury discloses, predefined data set is comprised of economic data, the economic data are microeconomic, croeconomic data, demographic data and meteosological data, see (col. 13, lines 21-67 to col. 14, lines 1-59).

With respect to claim 47, Ainsbury discloses, determining a volatility measurement for at least some of the data of the desired type contained in the at least one remote database; and storing the volatility measurement in association with the stored location information for the at least one remote database, see (col. 13, lines 21-67 to col. 14, lines 1- 59).

With respect to claim 48, Ainsbury discloses, determining a seasonality measurement for at least some of the data of the desired type contained in the at least one remote database, and storing the seasonality measurement in association with the stored location information for the at least one remote database, see (col. 13, lines 21-67 to col. 14, lines 1- 59).

With respect to claims 51-52, Ainsbury discloses, the data type information indicates the type of data contained in the at least one remote database, the time series data type information being stored in association with the database key, see (col. 13, lines 21-67 to col. 14, lines 1-59, col. 8, lines 50-67 to col. 9, lines 1-49).

With respect to claims 54-55, Ainsbury discloses, the data type information indicates the type of data contained in the at least one remote database, the time series data type information being stored in association with the database key, see (col. 13, lines 21-67 to col. 14, lines 1-59, col. 8, lines 50-67 to col. 9, lines 1-49).

With respect to claims 56-60, Ainsbury discloses, the data series key uniquely identifies the time series of data; and location information for the time series of data, the location information being stored in association with the time data series key, see (col. 10, lines 60-67 to col. 11, lines 1-23, col. 13, lines 21-67 to col. 14, lines 1-59).

With respect to claim 61, Ainsbury discloses, starting time of the time series of data, the starting time being stored in association with the data series key; an ending time of the time series of data, the ending time being stored in association with the data series key; and a time interval between each of the data points contained in the at least one time series of data, the time interval being stored in association with the data series key, see (col. 8, lines 50-67 to col. 9, lines 1-49, col. 13, lines 21-67 to col. 14, lines 1-59).

With respect to claims 62-64, Ainsbury discloses, the data series update information is comprised of information about when the series was last updated, the data series update information being stored in association with the data series key; information about the format of the time series of data contained in the at least one remote database, and the data series format information being stored in association with the data series key, see (col. 13, lines 21-67 to col. 14, lines 1-59).

With respect to claim 65, Ainsbury discloses, database subscription information, wherein the database subscription information is comprised of information about whether payment is required to access the data contained in the at least one remote database, see (col. 13, lines 21-67 to col. 14, lines 1-59).

With respect to claim 66, Ainsbury discloses, database access authorization information, wherein the database access authorization information is comprised of

information necessary to access the data contained in the at least one remote database, see (col. 13, lines 21-67 to col. 14, lines 1-59).

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac M Woo whose telephone number is (571) 272-4043. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IMW
December 13, 2004